u	mber: 10/092,263 CATE STIC System Branch CRF Processing Date: 6/29/2008
(	Changed a file from non-ASCII to ASCII V FR Verified by: (STIC st
	Changed the margins in cases where the sequence text was "wresped" down to the next line.
ŧ	Edited a format error in the Current Application Data section, specifically:
	Edited the Current Application Data section with the actual current number. The number inputted by the applicant was the prior application data; or other
	Added the mandatory heading and subheadings for "Current Application Data".
	Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.
	Changed the spelling of a mandatory field (the headings or subheadings), specifically:
	Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were:
	nserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:
	corrected subheading placement. All responses must be on the same line as each subheading. If the pplicant placed a response below the subheading, this was moved to its appropriate place.
	nserted colons after headings/subheadings. Headings edited included:
E	Deleted extra, invalid, headings used by an applicant, specifically:
	Deleted:   non-ASCII "garbage" at the beginning/end of files;   secretary initials/filename at end of file  page numbers throughout text;   other invalid text, such as
	nserted mandatory headings, specifically:
	Corrected an obvious error in the response, specifically:
	Edited identifiers where upper case is used but lower case is required, or vice versa.
•	Corrected an error in the Number of Sequences field, specifically:
,	A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.
	eleted <i>ending</i> stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error to a Patentin bug). Sequences corrected:
-	Other: moved (1207 response down one line



OIPE

RAW SEQUENCE LISTING DATE: 06/27/2002 PATENT APPLICATION: US/10/092,263 TIME: 19:27:09

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1 <110> APPLICANT: Bristol-Myers Squibb Company

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      4 <130> FILE REFERENCE: CT-2657NP
      5 <140> CURRENT APPLICATION NUMBER: US/10/092,263
      6 <141> CURRENT FILING DATE: 2002-06-04
     7 <160> NUMBER OF SEQ ID NOS: 8
     8 <170> SOFTWARE: PatentIn version 3.0
     10 <210> SEQ ID NO: 1
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     12 <212> TYPE: PRT
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     14 <220> FEATURE:
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     16 <222> LOCATION: (1)..(2)
     17 <223> OTHER INFORMATION: wherein "X" equals any amino acid.
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     32 <223> OTHER INFORMATION: wherein "X" equals any amino acid.
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W - - > 36
              Phe Asn Xaa Xaa Phe Pro
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     48 <210> SEQ ID NO: 4
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RAW SEQUENCE LISTING DATE: 06/27/2002 PATENT APPLICATION: US/10/092,263 TIME: 19:27:09

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0.0		Met	Asn	Trp	Glu	Lys	Val	Pro	Gln	Glu	Leu	Tyr	Thr	Arg	Leu		Ser	
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81 82		1 tca	ggt	Trp	caa Gln	5 atc	tcc	aag	att	att Ile	10 gtt	ggg	tgt	atg	tca	Gly 15 ttc	ggt	
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81 82 83 84		1 tca Ser	ggt Gly aaa	Trp cta Leu gca	caa Gln 20 tgg	5 atc Ile gga	tcc Ser	aag Lys gat	att Ile tgg	att Ile 25 gtt	10 gtt Val ttg	ggg Gly gag	tgt Cys gat	atg Met	tca Ser 30 gat	Gly 15 ttc Phe	ggt Gly atc	
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104	130					135					140					
105	acc tat															480
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108	gct gaa	gaa	acc	atg	gaa	gct	ttg	aat	gat	tgt	att	aaa	caa	ggt	tta	528
109	Ala Glu	Glu	Thr	Met	Glu	Ala	Leu	Asn	Asp	Cys	Ile	Lys	Gln	Gly	Leu	
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112	Thr Arg	Tyr	Ile	Gly	Ala	Ser	Thr	Met	Arg	Ala	Tyr	Gln	Phe	Ile	Lys	
113			180					185					190			
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115	Tyr Gln															
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119	210					215	_	•			220					
120	gca tac	tgt	aat	gaa	act	ggt	gtt	ggg	tta	atc	cca	tgg	tca	cca	aac	. 720
121	Ala Tyr						_									
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123	gct ggt	gga	ttc	tta	acc	aga	cca	qta	tcc	aaq	caa	qac	act	qcq	aga	768
124	Ala Gly					_		_		_		_			_	
125	_	_		245		_			250	-		•		255	_	
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127	Ser Ala										_			-		
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130	Ala Asp															
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133	Gly Val															
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136	Ser Trp															
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138	tta gat	ggt	ttc	aag	ttg	aag	cta	acc	qaa	qaq	qac	atc	aaa	ttc	tta	1008
139	Leu Asp															
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157				35	<u>F</u>	1	1	E	40					45	пор	0	
158		Phe	Ala	-	Met	Lvs	Lvs	Ala		Asp	Gln	Glv	Tle	Arg	Thr	Phe	Aen
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164		Lvs	Va 1	Phe	Phe		Δla	Pro	Glu	Glu		Glu	Ser	Phe	Ser		Phe
165		-1-			100				014	105	-1-	OLU	001		110	1110	1 110
166		Asn	His	Asn		Pro	Glv	His	Glu		Val	Asn	Δrσ	Ser		T.eu	Ser
167				115			011		120	Leu	, u ,	71011	**** 9	125	OL1	пси	DCI
168		Arσ	Lvs		Tle	Leu	Asp	Ser		Δla	Δla	Ser	Val	Glu	Δra	T.e.11	Glv
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170		Thr		Tle	Asp	Val	Leu		Tle	His	Δτα	Ψvr		Pro	Δcn	Πhr	Pro
171		145	-1-		F		150	·			5	155					160
172			Glu	Glu	Thr	Met.		Ala	Leu	Asn	Asp		Tle	Lys	Gln	Glv	
173						165					170	-1-		-1-		175	
174		Thr	Arg	Tyr	Ile	Gly	Ala	Ser	Thr	Met	Ara	Ala	Tvr	Gln	Phe		Lvs
175			_	-	180	-				185	-		-		190		
176		Tyr	Gln	Asn	Val	Ala	Glu	Lys	His	Gly	Trp	Ala	Lys	Phe	Ile	Ser	Met
177				195					200		_		_	205			
178		Gln	Ser	Tyr	Tyr	Ser	Leu	Leu	Tyr	Arg	Glu	Glu	Glu	Ala	Glu	Leu	Ile
179			210					215					220				
180		Ala	Tyr	Cys	Asn	Glu	Thr	Gly	Val	Gly	Leu	Ile	Pro	Trp	Ser	Pro	Asn
181		225					230					235					240
182		Ala	Gly	Gly	Phe	Leu	Thr	Arg	Pro	Val	Ser	Lys	Gln	Asp	Thr	Ala	Arg
183						245					250					255	
184		Ser	Ala	Ser	Gly	Ala	Ala	Ala	Leu	Tyr	Gly	Leu	Glu	Pro	Phe	Ser	Glu
185					260					265					270		
186		Ala	Asp	Lys	Ala	Ile	Ile	Asp	Arg	Val	Glu	Glu	Leu	Ser	Lys	Lys	Lys
187				275					280					285			
188		Gly	Val	Ser	Met	Ala	Ser	Val	Ala	Leu	Ala	Trp	Val	Ile	Ser	Lys	Asn
189			290					295					300				
190		Ser	Trp	Pro	Ile	Ile	Gly	Phe	Ser	Lys	Pro	Gly	Arg	Val	Asp	Asp	Ala
191		305					310					315					320
192		Leu	Asp	Gly	Phe	Lys	Leu	Lys	Leu	Thr	Glu	Glu	Asp	Ile	Lys	Phe	Leu
193						325					330		_		•	335	
194		$\operatorname{Glu}$	Glu	Pro	Tyr	Val	Pro	Lys	Pro	Leu	Pro	Arg	Leu	Tyr	Ser	Val	Ile
195					340					345					350		
196		Leu															

RAW SEQUENCE LISTING ERROR SUMMARY PATENT APPLICATION: US/10/092,263

DATE: 06/27/2002 TIME: 19:27:10

Input Set : N:\Crf3\06112002\J092263.raw
Output Set: N:\CRF3\06272002\J092263.raw

## Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the  $\langle 220 \rangle$  to  $\langle 223 \rangle$  fields of each sequence which presents at least one n or Xaa.

Seq#:1; Xaa Pos. 1,2

Seq#:2; Xaa Pos. 12,19,20

## Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:1; Line(s) 3



OIPE

RAW SEQUENCE LISTING DATE: 06/11/2002
PATENT APPLICATION: US/10/092,263 TIME: 13:57:16

Input Set : A:\CT-2657.NP.ST25.txt
Output Set: N:\CRF3\06112002\J092263.raw

Does Not Comply
Corrected Diskette Needed

```
3 <110> APPLICANT: Bristol-Myers Squibb Company
     STEREOSELECTIVE REDUCTION OF SUBSTITUTED ACETOPHENONE
    0 <120> TITLE INVENTION:
     7 <130> FILE REFERENCE: CT-2657NP
     9 <140> CURRENT APPLICATION NUMBER: US 10/092,263
C--> 10 <141> CURRENT FILING DATE: 2002-06-04
    12 <160> NUMBER OF SEQ ID NOS: 8
    14 <170> SOFTWARE: PatentIn version 3.0
    16 <210> SEQ ID NO: 1
    17 <211> LENGTH: 15
    18 <212> TYPE: PRT
    19 <213> ORGANISM: Pichia methanolica.
    21 <220> FEATURE:
    22 <221> NAME/KEY: MISC_FEATURE
    23 <222> LOCATION: (1)..(2)
    24 <223> OTHER INFORMATION: wherein "X" equals any amino acid.
    27 <400> SEQUENCE: 1
  > 29 Xaa Xaa Tyr Arg Leu Val Arg Arg Gln Arg Ser Ala Asp Glu Gln
           5 10
> SEQ ID NO: 2
    30 1
    32 <210> SEQ ID NO: 2
    33 <211> LENGTH: 22
    34 <212> TYPE: PRT
    35 <213> ORGANISM: Pichia methanolica
    37 <220> FEATURE: .....
    38 <221> NAME/KEY: MISC_FEATURE
    39 <222> LOCATION: (12)..(12)
    40 <223> OTHER INFORMATION: wherein "X" equals any amino acid.
    43 <220> FEATURE:
    44 <221> NAME/KEY: MISC_FEATURE
    45 <222> LOCATION: (19)..(20)
    46 <223> OTHER INFORMATION: wherein "X" equals any amino acid.
    49 <400> SEQUENCE: 2
    51 Lys Val Phe Phe Pro Ala Pro Glu Glu Tyr Glu Xaa Phe Val Val Leu
    52 1
                                        10
    54 Phe Asn Xaa Xaa Phe Pro
          20
    55
    57 <210> SEQ ID NO: 3
    58 <211> LENGTH: 19
    59 <212> TYPE: PRT
    60 <213> ORGANISM: Pichia methanolica
    62 <400> SEQUENCE: 3
    64 Lys Val Pro Gln Glu Leu Tyr Thr Asn Leu Gly Ser Ser Gly Leu Gln
    65 1
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RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/092,263

DATE: 06/11/2002 TIME: 13:57:16

Input Set : A:\CT-2657.NP.ST25.txt

Output Set: N:\CRF3\06112002\J092263.raw

```
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72 <212> TYPE: PRT
73 <213> ORGANISM: Pichia methanolica
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78 1
80 <210> SEQ ID NO: 5
81 <211> LENGTH: 30
82 <212> TYPE: DNA
83 <213> ORGANISM: Pichia methanolica
85 <400> SEQUENCE: 5
86 tgctcatgaa ttgggaaaaa gttccacaag
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89 <210> SEQ ID NO: 6
90 <211> LENGTH: 31
91 <212> TYPE: DNA
92 <213> ORGANISM: Pichia methanolica
94 <400> SEOUENCE: 6
.95 ctcggatcct tataaaatta cagaatataa g
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98 <210> SEQ ID NO: 7
99 <211> LENGTH: 1062
100 <212> TYPE: DNA
101 <213> ORGANISM: Pichia methanolica
103 <220> FEATURE:
104 <221> NAME/KEY: CDS
105 <222> LOCATION: (1)..(1059)
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108 atg aat tgg gaa aaa gtt cca caa gaa tta tac act cgt ttg ggc tct
109 Met Asn Trp Glu Lys Val Pro Gln Glu Leu Tyr Thr Arg Leu Gly Ser
112 tca ggt cta caa atc tcc aag att att gtt ggg tgt atg tca ttc ggt
                                                                           . 96
113 Ser Gly Leu Gln Ile Ser Lys Ile Ile Val Gly Cys Met Ser Phe Gly
114
                20
116 acc aaa gca tgg gga ggt gat tgg gtt ttg gag gat gag gat gag atc
                                                                           144
117 Thr Lys Ala Trp Gly Gly Asp Trp Val Leu Glu Asp Glu Asp Glu Ile
                                40
120 ttt gcg att atg aaa aag gct tat gat caa ggt atc aga act ttt gac
                                                                           192
121 Phe Ala Ile Met Lys Lys Ala Tyr Asp Gln Gly Ile Arg Thr Phe Asp
124 act gct gac tct tat tct aat ggt gtt tct gaa aga ctc tta ggt aaa
                                                                           240
125 Thr Ala Asp Ser Tyr Ser Asn Gly Val Ser Glu Arg Leu Leu Gly Lys
                        70
                                             75
128 ttc att aga aag tac aac att gat aga tct aag ctt gtt att ttg act
                                                                           288
129 Phe Ile Arg Lys Tyr Asn Ile Asp Arg Ser Lys Leu Val Ile Leu Thr
132 aag gtt ttt ttc cca gct cct gaa gaa tat gag tcg ttt agc ttc ttt
                                                                           336
133 Lys Val Phe Phe Pro Ala Pro Glu Glu Tyr Glu Ser Phe Ser Phe Phe
134
                100
                                    105
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RAW SEQUENCE LISTING DATE: 06/11/2002 PATENT APPLICATION: US/10/092,263 TIME: 13:57:16

Input Set : A:\CT-2657.NP.ST25.txt
Output Set: N:\CRF3\06112002\J092263.raw

									_	-		_	_	ggc		_	384
137 138	Asn	His	Asn 115	Phe	Pro	GTA	His	G1u 120	Leu	Val	Asn	Arg	Ser 125	Gly	Leu	Ser	
	aαa	aaa		att	t.t.a	gac	tct		act.	acc	tct	att		aga	t.t.a	aac	432
														Arg			
142	_	130				-	135					140		-		_	
														aat			480
		Tyr	Ile	Asp	Val		Gln	Ile	His	Arg		Asp	Pro	Asn	Thr		
	145					150					155					160	500
	-	-	_		_	-	_	_		-	-			caa			528
150	Ата	GIU	GIU	THE	165	GIU	Ата	Leu	ASII	170	Cys	TTE	пур	Gln	175	теп	
	acc	aσa	tac	att		σca	tct	acc	ato		qcc	tat	caa	ttc		aaσ	576
		_				-			_	_	-			Phe		_	
154			-	180	-				185	_		-		190		-	
					-						_	_		atc	_	_	624
	Tyr	Gln		Val	Ala	Glu	Lys		Gly	Trp	Ala	Lys		Ile	Ser	Met	
158			195					200					205				672
		_			_				_	_	-	-	-	gaa Glu			672
162	GIII	210	TYT	ıyı	ser	ьец	215	тут	AIG	GIU	GIU	220	мта	GIU	цец	116	
	qca		tqt	aat	gaa	act		qtt	qqq	tta	atc		tgg	tca	cca	aac	720
														Ser			
166	225					230					235					240	
														act			768
	Ala	Gly	Gly	Phe		Thr	Arg	Pro	Val		Lys	Gln	Asp	Thr		Arg	
170	a ~ +	~~~	a ~+	~~~	245	~~+	~~~	++-	+-+	250	ata	~~~	aat	++~	255	~~~	816
	_	-	_		_	_						-		ttc Phe	_	-	910
174	SCI		561	260	AIG	AIU	AIU	пси	265	OLY	ЦСи	GIU	110	270	DCI	OI u	
	gct	gat	aag	gct	att	att	gac	agg	gtt	gaa	gag	tta	tca	aag	aaa	aag	864
														Lys			
178			275					280					285				
		_		-		_	-	-		_		-		agt	_		912
	Gly			Met	Ala	Ser		Ala	Leu	Ala	Trp		Ile	Ser	Lys	Asn	
182	a a t	290		a++	a++	aat	295	a a t	224	cat	aaa	300	at t	gat	αat	act	960
	_							-	_					Asp	-		300
186			110	110	110	310	1 110	DCI	1110	110	315	9	-	пор		320	
		gat	ggt	ttc	aag		aag	cta	acc	gaa		gac	atc	aaa	ttc		1008
														Lys			
190					325					330					335		
														tct			1056
	Glu	Glu	Pro	_	Val	Pro	Lys	Pro		Pro	Arg	Leu	Tyr	Ser	Val	IIe	
194	tta	t 2 2		340					345					350			1062
197		Laa															1002
		)> SE	EQ II	NO:	8												
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RAW SEQUENCE LISTING DATE: 06/11/2002 PATENT APPLICATION: US/10/092,263 TIME: 13:57:16

Input Set : A:\CT-2657.NP.ST25.txt
Output Set: N:\CRF3\06112002\J092263.raw

203	<21	2> T	YPE:	PRT												
204	<213> ORGANISM:				Pic	hia r	netha	anol	ica							
206	<40	0> SI	EQUE	NCE:	8											
208	Met	Asn	Trp	Glu	Lys	Val	Pro	Gln	Glu	Leu	Tyr	Thr	Arg	Leu	Gly	Ser
209	1		_		5					10					15	
212	Ser	Gly	Leu	Gln	Ile	Ser	Lys	Ile	Ile	Val	Gly	Cys	Met	Ser	Phe	Gly
213		_		20					25		_	_		30		_
216	Thr	Lys	Ala	Trp	Gly	Gly	Asp	Trp	Val	Leu	Glu	Asp	Glu	Asp	Glu	Ile
217		_	35					40				_	45	-		
220	Phe	Ala	Ile	Met	Lys	Lys	Ala	Tyr	Asp	Gln	Gly	Ile	Arg	Thr	Phe	Asp
221		50		•	-	_	55		_			60				_
224	Thr	Ala	Asp	Ser	Tyr	Ser	Asn	Gly	Val	Ser	Glu	Arg	Leu	Leu	Gly	Lys
225			_		_	70		_			75	_			_	80
228	Phe	Ile	Arg	Lys	Tyr	Asn	Ile	Asp	Arg	Ser	Lys	Leu	Val	Ile	Leu	Thr
229					85					90					95	
232	Lys	Val	Phe	Phe	Pro	Ala	Pro	Glu	Glu	Tyr	Glu	Ser	Phe	Ser	Phe	Phe
233				100					105			•		110		
236	Asn	His	Asn	Phe	Pro	Gly	His	Glu	Leu	Val	Asn	Arg	Ser	Gly	Leu	Ser
237			115			_		120				-	125			
240	Arg	Lys	His	Ile	Leu	Asp	Ser	Ala	Ala	Ala	Ser	Val	Glu	Arg	Leu	Gly
241	-	130				_	135					140		_		_
244	Thr	Tyr	Ile	Asp	Val	Leu	Gln	Ile	His	Arg	Tyr	Asp	Pro	Asn	Thr	Pro
	145	_		_		150				_	155	-				160
248	Ala	Glu	Glu	Thr	Met	Glu	Ala	Leu	Asn	Asp	Cys	Ile	Lys	Gln	Gly	Leu
249					165					170					175	
252	Thr	Arg	Tyr	Ile	Gly	Ala	Ser	Thr	Met	Arg	Ala	Tyr	Gln	Phe	Ile	Lys
253				180					185					190		-
256	Tyr	Gln	Asn	Val	Ala	Glu	Lys	His	Gly	Trp	Ala	Lys	Phe	Ile	Ser	Met
257			195					200					205			
260	Gln	Ser	Tyr	Tyr	Ser	Leu	Leu	Tyr	Arg	Glu	Glu	Glu	Ala	Glu	Leu	Ile
261		210					215					220				
264	Ala	Tyr	Cys	Asn	Glu	Thr	Gly	Val	Gly	Leu	Ile	${\tt Pro}$	Trp	Ser	Pro	Asn
265	225					230					235					240
268	Ala	Gly	Gly	Phe	Leu	Thr	Arg	Pro	Val	Ser	Lys	Gln	Asp	Thr	Ala	Arg
269				•	245					250		•			255	
272	Ser	Ala	Ser	Gly	Ala	Ala	Ala	Leu	Tyr	Gly	Leu	Glu	${\tt Pro}$	Phe	Ser	Glu
273				260					265					270		
276	Ala	Asp	Lys	Ala	Ile	Ile	Asp	Arg	Val	Glu	Glu	Leu	Ser	Lys	Lys	Lys
277			275					280					285			
280	Gly	Val	Ser	Met	Ala	Ser	Val	Ala	Leu	Ala	Trp	Val	Ile	Ser	Lys	Asn
281		290					295					300				
284	Ser	Trp	Pro	Ile	Ile	Gly	Phe	Ser	Lys	Pro	Gly	Arg	Val	Asp	Asp	Ala
285	305					310					315					320
288	Leu	Asp	Gly	Phe	Lys	Leu	Lys	Leu	Thr	Glu	Glu	Asp	Ile	Lys	Phe	Leu
289		_	-		325		•			330		_		_	335	
292	Glu	Glu	Pro	Tyr	Val	Pro	Lys	Pro	Leu	Pro	Arg	Leu	Tyr	Ser	Val	Ile
293				340					345		-		•	350		
296	Leu															

VERIFICATION SUMMARY

DATE: 06/11/2002

PATENT APPLICATION: US/10/092,263

TIME: 13:57:17

Input Set : A:\CT-2657.NP.ST25.txt

Output Set: N:\CRF3\06112002\J092263.raw

L:0 M:201 W: Mandatory field data missing, TITLE INVENTION

L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:29 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 L:51 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 L:54 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2